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(54) Title: **ARRAYS, METHODS AND KITS FOR PREPARATION AND USE OF SYNTENIC GENOMIC ARRAYS FOR DIAGNOSTICS AND TOXICOLOGY**

(57) Abstract: The invention provides arrays, array-based methods, apparatuses and kits for detecting genetic abnormalities in cell populations, such as biopsy or body fluid samples or cultures of cancer cells, for comparing syntenic chromosome strans of different species, thereby optimizing performance of an array-based genomic hybridization.

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